



CBIAC

Serving the CB Defense Community

BASIC PRODUCTS CATALOG February 1997



A DTIC Sponsored Information Analysis Center.



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INTRODUCTION

The CBIAC, operated by Battelle Memorial Institute, is a full service Department of Defense (DoD) Information Analysis Center (IAC) under contract to the Office of the Secretary of Defense and administratively managed by the Defense Technical Information Center (DTIC) under the DoD IAC Program Office (Contract No. SPO900-94-D-0002). Established in 1986, the CBIAC serves as the focal point for Chemical Warfare/Chemical and Biological Defense (CW/CBD) technology.

The CBIAC produces a variety of multi-media products which represent chemical and biological defense “hot” areas. Most of the CBIAC products are available exclusively from the CBIAC; however, some are available exclusively from DTIC. To place a product order through the CBIAC, please detach the CBIAC Products Order Form included on page 13 of this catalog and submit it via fax, mail or E-mail to the attention of Ms. Judith M. Shetterly, CBIAC Administrator.

To place a product order through DTIC, you must have a DTIC User Account which can be established by contacting DTIC User Registration at 703-767-8273. If you have a DTIC User Account, you may place orders by contacting Document Orders at 703-767-8274 or the 24-Hour Ordering Service at 1-800-CAL-DTIC (225-3842).

CBIAC Basic Products

- **Bibliographies:** Bibliographies are lists of citations to documents compiled in response to database searches on frequently requested CBD topics.
- **Critical Reviews (CRs) and Technology Assessments (TAs):** CRs are evaluations of the most recently available information on a specific aspect of research and development that has applicability in the CBD arena. TAs are comparative analyses and appraisals based on technical characteristics.
- **Databases:** Databases are repositories of data which are organized for rapid electronic search, selection and retrieval.
- **Directories:** Directories are lists of informational resources organized by categories pertinent to CBD applicability.
- **Handbooks and Databooks:** Handbooks are authoritative analytical products that provide detailed technical data and profiles for a select category of CBD equipment or technology. Databooks are compilations of test and evaluation data for a specific aspect of CBD research and development.
- **Proceedings:** Proceedings are compilations of papers presented at conferences and symposia. The CBIAC organizes several annual conferences from which proceedings are generated.
- **State-of-the-Art Reports (SOARs):** SOARs are comprehensive analysis products on the status of a technology in a given subject area.
- **Training Aids:** The CBIAC designs and produces CBD training materials based on user needs. Our first training product is the CBIAC Chemical Warfare Agent Simulant Training Kit.

Future CBIAC Products

- **Interactive Software Products:** These products include models and simulations designed to give the user the feeling that they are in the actual CB environment (“virtual reality”) while eliminating the hazards associated with the battlefield environment. In addition, interactive software products can be used to facilitate training and instruction.
- **Training Videotapes:** Tapes covering a variety of topics within the CBIACs’ scope can be created upon user request.
- **CD ROMs:** These compact discs will include versions of specific collections or databases giving users the advantage of full text searching and the ability to view document images. See our Information Products and Services flyer for additional details.

Ordering Information

This CBIAC Basic Products Catalog provides product title, reference number, media, price, distribution limitation, publication date, availability, and description for CBIAC products that have been approved for dissemination.

Payment Methods



The CBIAC accepts a variety of payment methods including check or money order made payable to Battelle, (U.S. dollars only), purchase order (from U.S. Government agencies only), or credit card (including VISA, MasterCard and American Express).

Response Time



Orders will be filled on a first-come, first-served basis upon receipt of payment in full, unless otherwise specified. Please allow 4 to 6 weeks for delivery.

CBIAC Points of Contact

For technical questions, contact:

Nancy R. Brletich
Deputy Director
Tel: 410-612-6420
brleticn@battelle.org

To place an order, contact:

Judith M. Shetterly
CBIAC Administrator
Tel: 410-612-6412
shetterj@battelle.org

PRODUCTS LIST

CBIAC ON-LINE

Title: [Online Directory of CB Sites Accessible on the World Wide Web \(WWW\)](#)

CBIAC Product Number: DIR-97-01

CB Number/AD Number: *

ISBN Number: *

Product Category: Directory

Media: Internet

Price: Free

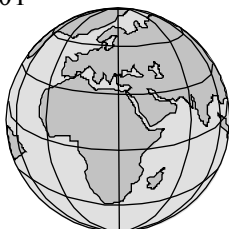
Distribution Limitation: Unlimited

Classification: Unclassified

Publication Date: November 1996

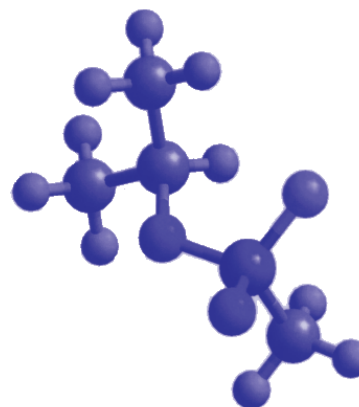
Availability: CBIAC

Description: Uniform resource locators (URLs) are categorized according to subject areas or topics such as medical aspects, decontamination, treaties, chemical properties, detection and a variety of others. This online directory includes sites that have been checked and verified for accuracy. Updates to the directory will be made periodically. The directory can be accessed via the button bar on the CBIAC homepage or directly at <http://www.cbiac.apgea.army.mil/directory/>.



CHEMICAL AND PHYSICAL PROPERTIES

Title: [Critical Review of Sources of Chemical and Physical Properties Data for Militarily Significant Compounds](#)



CBIAC Product Number: CR-96-03

CB Number/AD Number: CB-000765/ADD754479

ISBN Number: 1-888727-07-1

Product Category: Critical Review

Media: Paperback

Price: \$60.00

Distribution Limitation: Unlimited

Classification: Unclassified

Publication Date: May 1996

Availability: CBIAC

Description: This critical review provides information on where to find property data for militarily significant compounds such as agents, decontaminants, degradation products, precursors and simulants. The report also provides information on how to acquire relevant data, cost and many valuable points of contact. Numerous World Wide Web (WWW) sites which provide material safety data sheets as well as suppliers of militarily significant compounds are also identified.

CHEMICAL AND BIOLOGICAL DEFENSE EQUIPMENT

Title: [An Overview of U.S. Chemical and Biological Defensive Equipment](#)

CBIAC Product Number: SOAR-97-03

CB Number/AD Number: *

ISBN Number: *

Product Category: State-of-the-Art Report

Media: Paperback

Price: \$95.00

Distribution Limitation: Unlimited

Classification: Unclassified

Publication Date: January 1997

Availability: CBIAC

Description: This report will profile U.S. chemical protective equipment currently available or in development programs. Equipment in the categories of individual protection, detection and warning, collective protection and decontamination are presented, along with photographs or sketches of the items discussed. Over 50 protective equipment items are highlighted.

Title: Chemical Warfare Agent Simulant
Training Kit



CBIAC Product Number: SIMKIT-96-01

CB Number/AD Number: *

ISBN Number: *

Product Category: Training Aid

Media: Kit

Price: \$300.00

Distribution Limitation: Unlimited

Classification: Unclassified

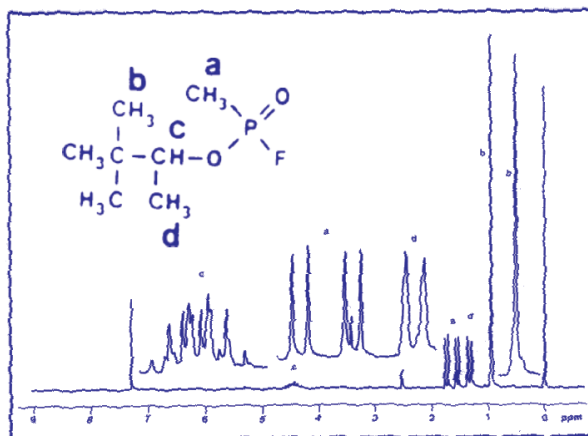
Publication Date: October 1996

Availability: CBIAC

Description: This kit, designed for classroom training purposes, simulates the color, viscosity, and scent of nerve agents Soman (GD), thickened Soman (TGD), Sarin (GB), and VX, as well as blister agents, distilled Mustard (HD) and Lewisite (L). Visual simulants are contained in clear, sealed glass vials. The scent simulants are added into a sponge material and contained inside dark-brown glass vials. The chemical properties are based upon literature and first-hand accounts from personnel experienced in working within chemical surety facilities. Each glass vial is marked with the designation "simulant". A Material Safety Data Sheet (MSDS) is provided for each chemical used as a simulant. Glass vials are color coded on the caps with the appropriate agent designation. Instructions for use are on the inside lid cover. A pair of laboratory gloves are provided with the kit along with directions for the clean-up of a liquid spill should a vial be accidentally broken. Kits are made upon order, therefore, please allow 6-8 weeks for delivery.

CHEMICAL IDENTIFICATION

Title: A Critical Review of Sources of Spectral Data
for Militarily Significant Compounds



CBIAC Product Number: CR-95-02

CB Number/AD Number: CB-028928/ADD754406

ISBN Number: 1-888727-06-3

Product Category: Critical Review

Media: Paperback

Price: \$20.00

Distribution Limitation: Unlimited

Classification: Unclassified

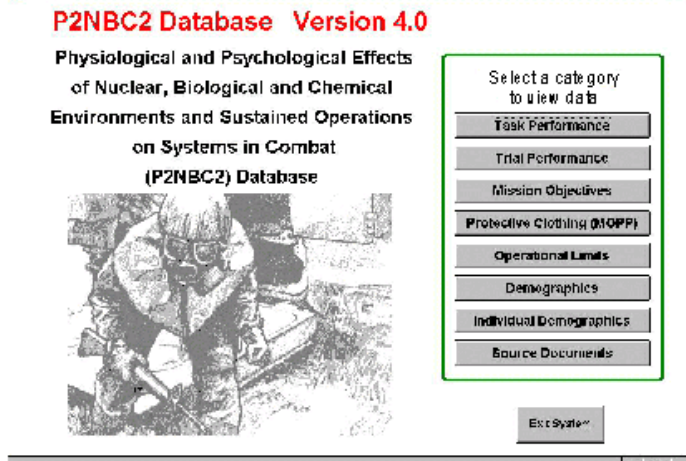
Publication Date: December 1995

Availability: CBIAC

Description: This critical review provides information on where to find data such as Nuclear Magnetic Resonance (NMR) spectra, Infrared (IR) spectra and Mass Spectra (MS) for militarily significant compounds including agents, decontaminants, degradation products, precursors and simulants. Profiles were provided for technical reports, reference books and databases that met the selection criteria established for this review. Sample citations for the databases were included whenever possible. The appendices cross-reference individual compounds with the type of spectral data available in each database for that compound. The document also provides information on access requirements for the various information resources, cost and valuable points of contact.

COMBAT EFFECTIVENESS

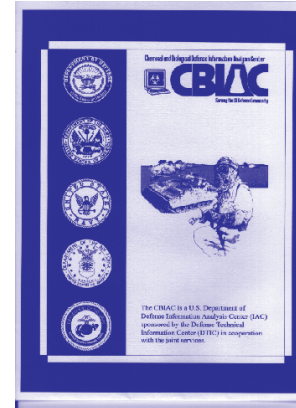
Title: Physiological and Psychological Effects of the Nuclear, Biological, and Chemical Environment and Sustained Operations on Systems in Combat (P²NBC²) Database



CBIAC Product Number: DB-97-01
CB Number/AD Number: *
ISBN Number: *
Product Category: Database
Media: Disk
Price: \$60.00
Distribution Limitation: U.S. Department of Defense and their Contractors
Classification: Unclassified
Publication Date: January 1997
Availability: CBIAC
Description: The P²NBC² Database was developed to archive data that was collected between 1985 and 1993 from 20 field tests sponsored by the P²NBC² program. Detailed information from 463 tasks performed in MOPP4 is formatted on disk. An IBM compatible personal computer (PC) with Windows™ is required for operation of this database. A user manual explaining system requirements, installation procedures, database design, and a summary of the individual field trials is provided. References for the actual test and evaluation documentation are included.

GENERAL INFORMATION

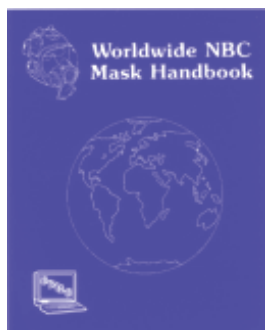
Title: CBIAC Starter Kit



CBIAC Product Number: CAP-95-01
CB Number/AD Number: *
ISBN Number: *
Product Category: Current Awareness and Promotion
Media: Paperback and Internet
Price: Free
Distribution Limitation: Unlimited
Classification: Unclassified
Publication Date: January 1997
Availability: CBIAC
Description: This kit is an orientation package containing flyers describing every facet of the CBIAC operation including General Information, Information Products and Services, Basic Products, Current Awareness and Promotions, Inquiry and Referral Services, and Technical Area Tasks (TATs). In addition, the kit contains forms for adding your name to the CBIAC Newsletter mailing list, requesting inquiry services, purchasing advertisement space in the CBIAC Newsletter, or ordering CBIAC products. The CBIAC Starter Kit can also be obtained by accessing the CBIAC homepage at <http://www.cbiac.apgea.army.mil/>.

INDIVIDUAL AND COLLECTIVE PROTECTION

Title: Worldwide NBC Mask Handbook



CBIAC Product Number: HB-92-01
CB Number/AD Number: CB-020851/ADD752923
ISBN Number: 1-888727-01-2
Product Category: Handbook
Media: Hardcover
Price: \$299.95/first copy; \$249.95 additional copies to the same purchaser. Special Offer: \$99.95 if purchased with the Worldwide Chemical Detection Equipment Handbook!
Distribution Limitation: Unlimited
Classification: Unclassified
Publication Date: September 1992
Availability: CBIAC
Description: This Smyth sewn, hardcover handbook consists of over 400 pages containing nearly 100 current NBC masks and canisters inventoried by physical and performance specifications. Data on the individual protection equipment from 22 countries representing NATO, the former Warsaw Pact and neutral nations is included. Photographs and drawings, many in color, are provided for most of the items identified. The chapters are divided into three sections: filtration, respirators, and references. The handbook is completely cross-referenced and includes equipment indices by country and by manufacturer. Numerous world renowned NBC defense experts have provided inputs to this publication



Title: Proceedings of the CB Medical Treatment Symposium: An Exploration of Present Capabilities and Future Requirements for Chemical and Biological Medical Treatment



CBIAC Product Number: PR-95-02
CB Number/AD Number: CB-028929/ADD754407
ISBN Number: 1-888727-04-7
Product Category: Proceedings
Media: Paperback
Price: \$49.00
Distribution Limitation: Unlimited
Classification: Unclassified
Publication Date: June 1995
Availability: CBIAC
Description: This book includes all technical papers and poster presentations given at the 1994 CB Medical Treatment Symposium held 5-8 December, 1994 at the NC Laboratory, Spiez, Switzerland. Topics include Medical Treatment; New Agents (Development and Treatment); Medical Delivery Systems; Medical Aspects of Disarmament; and Biologicals, Toxins, and Vaccines. Representatives from Canada, China, Croatia, Czech Republic, Iran, Israel, Poland, Russia, Singapore, South Africa, the United States and most other NATO countries were among the attendees and presenters.



NUCLEAR, BIOLOGICAL AND CHEMICAL (NBC) SURVIVABILITY

Title: [Chemical Defense Materials Databook](#)

CBIAC Product Number: DBK-95-01

CB Number/AD Number: CB-027734/ADB198850

ISBN Number: 1-888727-03-9

Product Category: Databook

Media: Paperback

Price: \$10.00

Distribution Limitation: U.S. Department of Defense
Agencies and their Contractors; Export-Controlled

Classification: Unclassified

Publication Date: April 1995

Availability: Available from the CBIAC while supplies
last. Thereafter, available from the Defense Technical
Information Center (DTIC).

Description: The CBIAC, in cooperation with the Army
Research Laboratory (ARL), has prepared the Chemical
Defense Materials Databook. Updated since its initial
distribution at the 1994 Contamination Survivability Sympo-
sium, the databook is an abridged paper version of the
Chemical Defense Materials Database (CDMD). The
databook is designed to offer insight into the selection
criteria for materials by providing the user with industrial
guidelines for material selection, as well as insight into the
problems with the data. The databook is a handy quick
reference to the important information found in the
CDMD.

Title: [A Critical Review of Nuclear, Biological and
Chemical Contamination Survivability \(NBCCS\)](#)

CBIAC Product Number: CR-95-01

CB Number/AD Number: CB-028927/ADD754405

ISBN Number: 1-888727-05-5

Product Category: Critical Review

Media: Paperback

Price: \$20.00

Distribution Limitation: Unlimited

Classification: Unclassified

Publication Date: April 1995

Availability: CBIAC

Description: This document provides the reader with the
tools to understand the NBC criteria, the NBC materials
selection process, the problems associated with the pro-
cess, and what is being done to improve the process. This
critical review provides a general overview as well as
historical information on NBCCS regulations and their
need. The review offers insight into the selection criteria
for materials, provides a survivability analysis for some of
the more commonly used materials and highlights some of
the most widely used tests for determining NBCCS.

Title: [Material Selection Guide Derived from the
Material-Chemical Compatibility Database: Feasibility
Based on Database and Predictive Model Evaluation](#)

CBIAC Product Number: SOAR-92-01

CB Number/AD Number: CB-022780/ADA266058

ISBN Number: *

Product Category: State-of-the-Art Report

Media: Paperback

Price: Not Applicable

Distribution Limitation: Unlimited

Classification: Unclassified

Publication Date: September 1992

Availability: Defense Technical Information Center
(DTIC)

Description: The U.S. Army Chemical Research,
Development and Engineering Center (ERDEC) and the
CBIAC evaluated the feasibility of compiling a list of
materials that are survivable in a CB environment and
compatible with current decontaminants. The feasible
characteristics of a candidate Nuclear, Biological and
Chemical Contamination Survivability (NBCCS) Materials
Guide are discussed in this publication. Thermodynamic
predictive methodologies evaluated in the studies included
approaches on polymer solubility phase diagrams, equation-
of-state and universal group contribution activity coefficient
estimates



TREATY VERIFICATION TECHNOLOGY

Title: Chemical Weapons Treaty Technologies
Reference Collection, Volume 1 - Bibliography

CBIAC Product Number: BIB-95-08A

CB Number/AD Number: CB-029338/ADB208520

ISBN Number: *

Product Category: Bibliography

Media: Paperback

Price: \$25.00

Distribution Limitation: U.S. Government Agencies
and their Contractors; Export-Controlled.

Classification: Unclassified

Publication Date: May 1995

Availability: CBIAC

Description: This document serves as a resource for Government agencies and other investigators interested in CW treaty verification technologies. It includes an extensive array of citations to documents from national and international sources such as Government research centers and laboratories, as well as treaty organizations, universities, foundations, private industry and open literature sources. Volume 1 contains two appendices. Appendix A provides an alphabetical list of treaty documents and Appendix B provides information and instructions for gaining access to the Chemical and Biological Defense Information Analysis Center's Bibliographic Database (CBIAC BD).

Title: Chemical Weapons Treaty Technologies
Reference Collection, Volume 2 - Keyword Index

CBIAC Product Number: BIB-95-08B

CB Number/AD Number: CB-029339/ADB208471

ISBN Number: *

Product Category: Bibliography

Media: Paperback

Price: \$39.00

Distribution Limitation: U.S. Government Agencies
and their Contractors; Export-Controlled.

Classification: Unclassified

Publication Date: May 1995

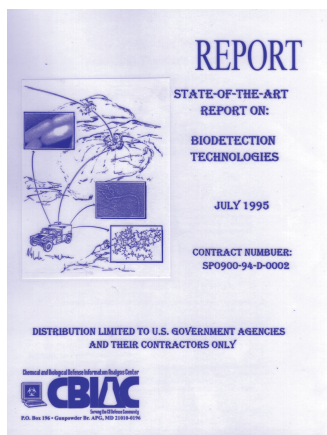
Availability: CBIAC

Description: This document serves as a resource for Government agencies and other investigators interested in CW treaty verification technologies. It includes an extensive array of citations to documents from national and international sources such as Government research centers and laboratories, as well as treaty organizations, universities, foundations, private industry and open literature sources. Volume 2 contains two appendices. Appendix A provides a list of keywords from the Chemical and Biological Defense Information Analysis Center's Bibliographic Database (CBIAC BD) and CBIAC document numbers for documents that contain that keyword. Appendix B provides a list of treaty documents in CBIAC document number order as a cross-reference to Appendix A.



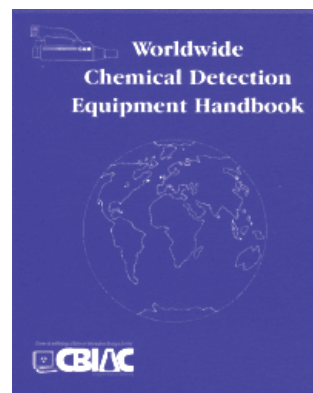
WARNING AND IDENTIFICATION

Title: State-of-the-Art Report on Biodetection Technologies



CBIAC Product Number: SOAR-95-02
CB Number/AD Number: CB-028930/ADD754408
ISBN Number: 1-888727-02-0
Product Category: State-of-the-Art Report
Media: Paperback
Price: \$60.00
Distribution Limitation: U.S. Government Agencies and their Contractors; Export Controlled.
Classification: Unclassified
Publication Date: July 1995
Availability: CBIAC
Description: This publication provides a brief overview of biodetection technologies that may be used for military purposes. It also describes biological warfare agents and their properties as they relate to detection. Standoff, non-specific and specific biodetection technologies such as immunoassay technologies, nucleic acid amplification, flow cytometry, mass spectrometry, laboratory analysis and others are discussed.

Title: Worldwide Chemical Detection Equipment Handbook



CBIAC Product Number: HB-95-02
CB Number/AD Number: CB-028982/ADD754461
ISBN Number: 1-888727-00-4
Product Category: Handbook
Media: Hardcover
Price: \$299.95/first copy, \$249.95 additional copies to the same purchaser. Special Offer: Purchasers of this handbook are eligible to purchase the Worldwide NBC Mask Handbook for \$99.95!
Distribution Limitation: Unlimited
Classification: Unclassified
Publication Date: September 1995
Availability: CBIAC
Description: This handbook, consisting of over 400 pages, documents physical and performance specifications for over 90 chemical detectors and serves as a valuable resource for engineers and scientists involved in CB Research and Development (R&D) efforts, the intelligence community, the Chemical Weapons Convention (CWC) verification community, equipment evaluators, foreign Governments and embassies, news media, military libraries and information centers. In addition to details on specific detectors, it describes active and passive standoff detection technologies as well as the following point detection technologies: ionization/ion mobility; flame photometry; mass spectrometry; photoacoustic infrared spectroscopy; electrochemistry and enzyme and wet chemistry reactions used in detection kits, tickets and papers.



BIBLOGRAPHIES

BIOLOGICAL WARFARE



<u>Product Number</u>	<u>Title/Limitation</u>	<u>Price</u>
BIB-95-01	Biological Agent Delivery U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00
BIB-95-02	Biological Agent Transport U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00
BIB-95-03	Biological Agent/Weapon Effects - Medical U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00
BIB-95-04	Biological Agent/Weapon Effects - Environmental U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00
BIB-95-05	Biological Agent/Weapon Models U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00
BIB-95-06	Biological Agent Detection - Medical U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00
BIB-95-07	Biological Agent Detection - Environmental U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00

DECONTAMINATION

BIB-97-16	Decontamination Efficiency of Bleach/Polar Organic Solvent/Surfactant/Water Against Chemical and Biological Agents U.S. Government Agencies and their Contractors; Export-Controlled	\$15.00
BIB-97-17	Decontamination Efficiency of Fichlor Based Decontamination System Against Chemical and Biological Agents U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00
BIB-97-18	Decontamination Efficiency of Decontaminating Solution 2 and Decontaminating Solution 2 Program Against Chemical and Biological Agents U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00
BIB-97-19	Decontamination Efficiency of Monoethanolamine Against Chemical and Biological Agents U.S. Government Agencies and their Contractors; Export-Controlled	\$ 5.00
BIB-97-20	Decontamination Efficiency of Monoethanolamine and Sodium Hydroxide Against Chemical and Biological Agents U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00

BIB-97-21	Decontamination Efficiency of Multipurpose Chemical-Biological Decontaminant (MCBD) Against Chemical and Biological Agents U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00
BIB-97-22	Decontamination Efficiency of Pyrrolidone and Alkoxides Against Chemical and Biological Agents U.S. Government Agencies and their Contractors; Export-Controlled	\$ 5.00
BIB-97-23	Decontamination Efficiency of Sodium Hypochlorite and Menger's Microemulsion Against Chemical and Biological Agents U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00
BIB-97-24	Decontamination Efficiency of Sorbent Decontaminants (Including Fuller's Earth) Against Chemical and Biological Agents U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00
BIB-97-25	Decontamination Efficiency of Supertropical Bleach Against Chemical and Biological Agents U.S. Government Agencies and their Contractors; Export-Controlled	\$10.00
BIB-97-25S	Complete Set of Decontamination Efficiency Bibliographies: 97-16 through 97-25 U.S. Government Agencies and their Contractors; Export-Controlled	\$75.00

DEMILITARIZATION

BIB-96-09	Chemical Demilitarization U.S. Government Agencies and their Contractors; Export-Controlled	\$40.00
BIB-96-10	Bioremediation as a Demilitarization Technology U.S. Government Agencies and their Contractors; Export-Controlled	\$ 5.00
BIB-96-11	Alternative Technologies for Demilitarization U.S. Government Agencies and their Contractors; Export-Controlled	\$15.00
BIB-96-12	Incineration as a Demilitarization Technology U.S. Government Agencies and their Contractors; Export-Controlled	\$15.00
BIB-96-13	Neutralization as a Demilitarization Technology U.S. Government Agencies and their Contractors; Export-Controlled	\$15.00
BIB-96-14	Cryofracture as a Demilitarization Technology U.S. Government Agencies and their Contractors; Export-Controlled	\$ 5.00

INTERNATIONAL TECHNOLOGY, PROLIFERATION AND CONTROL

BIB-96-15	Chemical and Biological Terrorism U.S. Government Agencies and their Contractors; Export-Controlled	\$15.00
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